

## SELF LOCKING APPARATUS

### ABSTRACT OF THE DISCLOSURE

[0041] A self locking apparatus comprising: a housing; a load initiating element located within the housing; a spring located adjacent to the load initiating element, and configured to expand in compression against the housing; and wherein the load initiating element and spring are slideable within the housing until the spring is loaded into a self locking mode. A self locking apparatus comprising: an outer tube; a cylindrical body, with a plurality of slotted surfaces forming a plurality of load transfer segments, and with a bottom annulus, the cylindrical body located within the outer tube; a spring located adjacent to the bottom annulus and configured to expand in compression against the load transfer segments; and the slotted cylindrical body and spring are slideable within the outer tube in the absence of the spring being loaded into a self locking mode. A self locking apparatus comprising: an inner tube; a cylindrical body, with a plurality of slotted surfaces forming a plurality of load transfer segments, and with a bottom annulus, the cylindrical body located adjacent to an inner tube; a spring located adjacent to the bottom annulus and configured to expand in compression against the load transfer segments; and the inner tube is slideable with respect to the slotted cylindrical body and spring in the absence of the spring being loaded into a self locking mode.